


August 28, 1959

File No.: 393

Subject: Overhaul of Trackers -
Serial Nos. 5 and 1025X1A


Dear Doc:

On July 16th, Tracker Serial No. 5 was received in this area followed by Serial No. 10 on July 23rd.

August 26th Tracker Serial No. 5 was shipped to  area. 25X1A
It is expected that Serial No. 10 will be completed by approximately September 4th. Serial No. 5 took longer than we anticipated to overhaul for three reasons, as follows:

- (1.) The unit was in considerably worse condition than we anticipated.
- (2.) The work was somewhat interrupted by a two-week vacation shutdown of the plant's normal operations.
- (3.) Reports from the field on problems with a transistorized metering kit, recently installed in area B, required extensive research of this area during the overhaul of Tracker No. 5. The information we acquired during this research has been forwarded to the field and should prove quite beneficial.

The following replacements and repairs were affected on Serial No. 5:

A. Components Replaced

1 Scan Motor	* 1 Motor Filter
1 Metering Motor	* 1 "O" Ring
1 Shaft, Prism	1 Metering Switch
* 1 Shaft & Hub Assembly	1 Scan Switch
1 Relay	6 Tru-Arc Rings
1 Relay	1 14 Pin Socket
1 Prism	1 Transistorized Metering
1 Modified Scan Cam	Kit - (Engineering Change)
2 N.D. R-6 Ball Bearings	1 Double Gear
1 Metering Delay Cam	* 1 Brake Band

65. 44 05 3 13 30 PM
* - These parts were missing from Tracker.

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B. Adjustments and Repairs

Film guides were out of position. Lower left hand guide had very bad nicks.

Change Gear Retainer Clip bent - causing binding.

Pinning of Scan Pawl Plate on Disc Clutch was incorrect.

Gear Box was loose.

Intervalometer out of adjustment.

Lens Mount Assembly out of round.

Platen out of position.

Clock intensity "pot" grounded to casting.

Wiring harness on relay rack had two broken leads.

Gearing was quite dirty and some gears had bad nicks.

Dome would not fit on Tracker.

Covers were badly bent permitting light leaks.

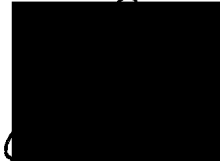
Scan Latch Lever was fitted too tight.

Ratchet was worn due to incorrect Disc Clutch Assembly.

Programmer damaged, apparently from attempting to remove mini-joint incorrectly.

As you can see, this Tracker was in unusually bad condition. I do not think it is indicative of the problems we would normally encounter in an overhaul program at the present time. Serial No. 10 illustrates this, inasmuch as it requires relatively little work.

Very truly yours,



25X1A

JC:hmm

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memo in

February 2, 1959

File No. 231

25X1A



To clarify whatever confusion may exist in regards to Driftsight part numbers, I would like to submit the following list at the request of [REDACTED]

25X1A

152-0018	Eyepiece Knuckle
152-0017	Tube Assembly Only
152-0028	Scanning Head
152-0022	Complete Driftsight i.e. Eyepiece Knuckle Tube and Scanning Head, fully assembled

There is at present, no part number for the tube (152-0017) and Scanning Head (152-0028) as a combined assembly. However, if you feel that a part number for this assembly would be advisable, we shall issue one.

Since complete interchangeability of all component parts can be accomplished, the problem of serial numbering these parts has been called to our attention. The solution of this problem is as follows: The Eyepiece Knuckle (152-0018) shall continue to be serialized; The Scanning Head (152-0028) shall continue to be serialized; The Tube Assembly (152-0017) will not be serialized, but will assume the serial number of the attached Scanning Head.

I hope this information is sufficient for your requirements, and I am

25X1A

Very truly yours,



Engineering Coordinator

RSL:hmm